1871MNRAS..32...67H

Perihelion Passage, 1871, Dec. 20·29115 G.M.T.

Longitude of Perihelion	263° 33′ 52″	} Apparent Equinox, Nov. 0.
,, Ascending Node..	147 28 38	
,, Inclination	82 31 21	

Log. Perihelion Distance 9·8321610.

Motion retrograde.

For the middle observation Δα (c−o) = +7″, Δα.cos.δ = +11″.

Hence the following Ephemeris, which may be useful in the reduction of the observations :—

0h G.M.T.	R.A. h m s	N.P.D. ° ′	Log. Δ.
Nov. 3	18 37 44	98 57·3	0·10155
4	38 7	99 58·0	0·10355
5	38 30	100 58·0	0·10516
6	38 54	101 57·6	0·10698
7	39 19	102 56·6	0·10881
8	39 45	103 55·1	0·11066
9	40 11	104 53·0	0·11253
10	40 38	105 50·5	0·11438
11	41 5	106 47·4	0·11621
12	41 32	107 43·8	0·11803
13	42 0	108 39·7	0·11985
14	42 28	100 35·1	0·12167
15	18 42 57	110 29·9	0·12349

The co-ordinate constants, for the equators, are,

$$x = r.\,[9{\cdot}9274093]\,.\,\sin(v + 21^\circ\,20'\,37'')$$
$$y = r.\,[9{\cdot}7590534]\,.\,\sin(v + 175\;17\;16)$$
$$z = r.\,[9{\cdot}9898798]\,.\,\sin(v + 283\;26\;\;2)$$

Ephemeris of Tuttle's Comet for the Southern Hemisphere.

By J. R. Hind, F.R.S.

The following Ephemeris is calculated from the elements of Dr. Tischler, but with perihelion passage taken Dec. 1·7974 G.M.T. When found by Dr. Winnecke on October 14, and considered pretty bright, I = 0·58.

0h G.M.T.	R.A. h m s	N.P.D. ° ′	Log. Δ.	I.
1871, Dec. 18	11 52 2	143 5·5	9·9286	1·24
20	11 58 57	145 20·6	9·9399	
22	12 6 12	147 27·2	9·9511	1·08
24	12 13 48	149 25·7	9·9623	
26	12 21 45	151 16·3	9·9734	0·94
28	12 30 3	152 59·5	9·9843	
30	12 38 42	154 35·6	9·9950	0·82

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1871MNRAS..32...68.

0h G.M.T.	R.A. h m s	N.P.D. ° ′	Log. Δ.	I.
1872, Jan. 1	12 47 44	156 5·0	0·0054	
3	12 57 9	157 28·0	0·0156	0·72
5	13 6 58	158 45·1	0·0255	
7	13 17 12	159 56·4	0·0349	0·63
9	13 27 50	161 2·3	0·0441	
11	13 38 52	162 3·0	0·0530	0·55
13	13 50 18	162 58·7	0·0616	
15	14 2 7	163 49·8	0·0698	0·48
17	14 14 16	164 36·7	0·0778	
19	14 26 43	165 19·5	0·0854	0·43

Elements of Minor Planet (116). By Dr. R. Luther.

Epoch 1871, September 23^{h}·0 Berlin Mean Time.

L .. 8° 58′ 12″·6
M.. 221 44 19·7
π .. 147 13 52·9 } Mean Equinox, 1871·0.
☊.. 64 14 13·0 }
ι .. 3 35 28·7 }
ϕ .. 8 31 35·0
μ .. 764″·812143
Log. a 0·4443012

These elements have been computed from observations made in Germany.

Comet IV., 1871, *discovered by M. Tempel at Milan on the 3d November.*

The elements, calculated by MM. Oppolzer and Schulhof, are as follows:—

T = December 20·1155 Berlin M.T.

π = 22° 25′ 39″ } Mean Equation 1871·0.
☊ = 145 19 53 }
i = 102 7 40
Log q = 9·87628.

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